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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/064,605	07/	30/2002	Ronald Scott Bunker	124626-1	6850
6147	7590	04/07/2005		EXAM	INER
00		C COMPANY	ALEJANDRO, RAYMOND		
GLOBAL RI		BLDG, K1-4A59		ART UNIT	PAPER NUMBER
NISKAYUN			1745		

DATE MAILED: 04/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Amm!:	
A shafe are A safe	Application No.	Applicant(s)	
Advisory Action	10/064,605	BUNKER, RONA	LD SCOTT
Before the Filing of an Appeal Brief	Examiner	Art Unit	
	Raymond Alejandro	1745	
The MAILING DATE of this communication app	pears on the cover sheet with	the correspondence a	address
REPLY FILED <u>28 March 2005</u> FAILS TO PLACE THIS			
<ul> <li>The reply was filed after a final rejection, but prior to file applicant must timely file one of the following replies: (application in condition for allowance; (2) a Notice of A Request for Continued Examination (RCE) in compliant time periods:</li> <li>The period for reply expiresmonths from the mailing</li> </ul>	(1) an amendment, affidavit, or Appeal (with appeal fee) in com nce with 37 CFR 1.114. The rep	other evidence, which p pliance with 37 CFR 41.	laces the 31; or (3) a
The period for reply expiresmonths from the mailing date of this A		rth in the final rejection, which	hever is later. In no
event, however, will the statutory period for reply expire later	than SIX MONTHS from the mailing	date of the final rejection.	
Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07		THE FIRST REPLY WAS F	ILED WITHIN TWO
nsions of time may be obtained under 37 CFR 1.136(a). The date of	on which the petition under 37 CFR	1.136(a) and the appropriate	extension fee have
filed is the date for purposes of determining the period of extension 1.17(a) is calculated from: (1) the expiration date of the shortened	n and the corresponding amount of t	he fee. The appropriate extent in the final Office action: or	nsion fee under 37
e, if checked. Any reply received by the Office later than three mon	nths after the mailing date of the final	rejection, even if timely filed	, may reduce any
ed patent term adjustment. See 37 CFR 1.704(b). FICE OF APPEAL			
The reply was filed after the date of filing a Notice of A	ppeal, but prior to the date of fi	ling an appeal brief. The	Notice of Anneal
was filed on A brief in compliance with 37 CFR	R 41.37 must be filed within two	months of the date of fi	ling the Notice of
Appeal (37 CFR 41.37(a)), or any extension thereof (37			e a Notice of
Appeal has been filed, any reply must be filed within the ENDMENTS	le time period set forth in 37 Cr	-R 41.37(a).	
The proposed amendment(s) filed after a final rejectio	n, but prior to the date of filing	a brief will not be enter	ed hecause
(a) They raise new issues that would require further			od beeddee
(b) They raise the issue of new matter (see NOTE be	elow);	·	
(c) They are not deemed to place the application in tappeal; and/or	petter form for appeal by mater	ially reducing or simplify	ing the issues for
(d) They present additional claims without canceling	a corresponding number of fin	ally rejected claims.	
NOTE: (See 37 CFR 1.116 and 41.33(a		•	
The amendments are not in compliance with 37 CFR 1		Non-Compliant Amendm	ent (PTOL-324).
Applicant's reply has overcome the following rejection			
Newly proposed or amended claim(s) would be the non-allowable claim(s).	e allowable if submitted in a se	parate, timely filed amer	dment canceling
For purposes of appeal, the proposed amendment(s): a how the new or amended claims would be rejected is p	a)  will not be entered, or b)		an explanation of
The status of the claim(s) is (or will be) as follows:	11		
Claim(s) allowed: Claim(s) objected to:			
Claim(s) rejected to: Claim(s) rejected: <u>1,2,4-9 and 11-19</u> .			
Claim(s) withdrawn from consideration:			
IDAVIT OR OTHER EVIDENCE			
The affidavit or other evidence filed after a final action, because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).	but before or on the date of fill and sufficient reasons why the	ng a Notice of Appeal w affidavit or other eviden	ill <u>not</u> be entered ce is necessary
The affidavit or other evidence filed after the date of fili	ng a Notice of Appeal, but prio	r to the date of filing a b	rief, will not be
entered because the affidavit or other evidence failed to	o overcome <u>all</u> rejections under	appeal and/or appellan	t fails to provide a
showing a good and sufficient reasons why it is necess  The affidavit or other evidence is entered. An explana			
The amdavit of other evidence is entered. An explana QUEST FOR RECONSIDERATION/OTHER	mon of the status of the cialms	and entry is below of a	uacned.
The request for reconsideration has been considered	but does NOT place the applic	ation in condition for allo	wance because:
see next page.			
	s). (PTO/SB/08 or PTO-1449) i	Paper No(s)	

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## **DETAILED ACTION**

## Response to Arguments

1. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., "Pfeiffer appears to use two distinct fluids that never alternate with each other" or "Pfeiffer uses two fluids in alternating layers that never communicates with each other") are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). In this respect, it's the examiner position that even though the prior art of record (i.e. the Pfeiffer reference) does include the use of more than one (1) fluids, the present claim language, in fact, does not exclude the use of two or more fluids. That is, the instant invention is completely silent as to whether only one fluid or more fluids is/are flowing through the channels. To be precise, independent claims 1, 7 and 9 merely recites "an initial flow of a fluid therethrough in a top direction through said top channel and a bottom direction through said bottom channel". Actually, it appears that the language of independent claims 1, 7 and 9 also intend to claim "an initial flow of fluid therethough in a top direction through said top channel" and "an initial flow of fluid therethough in a bottom direction through said bottom channel". How many fluid(s)? It is unspecified. Only one? Or a first fluid for the top channel and a second fluid for the bottom channel? Furthermore, nowhere in the present claim language the examiner can find any indication as to whether or not the present claims are intended to prevent the use of two or more fluids. Therefore, applicant's arguments are not commensurate in scope with the instant claim language.

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2. In addition, applicant appears to be arguing that the prior art of record fails to reveal "the top direction and the bottom direction comprising different directions", nevertheless, applicant himself appears to be admitting that Pfeiffer structure allows a fluid to move diagonally opposite to a second fluid (Refer to page 2, last paragraph of the amendment after-final of 03/28/05). Thus, applicant's arguments are found to be confusing, vague and ambiguous. However, since the prior art of record does disclose "two different fluid directions" per se, it is strenuously contended that prior art still provides the necessary functional and structural interrelationship to satisfy that claimed requirement.

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- In response to applicant's argument that "The angled features in the center rectangular region on the figures shown in Pfeiffer are merely surface grooves of tabulations, not flow channels", the fact that applicant has recognized another advantage/disadvantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See Ex parte Obiaya, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985).
- In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5

  USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, given that the Pfeiffer reference is directed to address subject matter related to flow communication, flow channels, and flow direction for heat exchanging purposes, and the

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Margiott reference also addresses fluid mechanic and heat exchange matters in a fuel cell system, it has been found that both references are pertinent to each other as well as to the field of applicant's endeavor because they all address the same problem of improving fluid communication and heat exchanging.

- 5. In response to applicant's argument that "It is unclear to applicant why one of ordinary skill in the art would be motivated to include the two fluid type embossed heat exchanger teachings of Pfeiffer with the single fluid fuel cell embodiment of Margiott", the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art (←emphasis added).

  See In re Keller, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).
- 6. In response to applicant's arguments against the references individually (*against Margiott alone*), one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).
- 7. Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references. This is to address applicant's arguments concerning claims 4, 11, 15-16 and 19.